## Standard exchange

This scenario describes the exchange of spare parts when increased taxable amount is required and how this can be processed in electronic invoicing. The solution is based on the same principle as cash discount so it introduces no new techniques but re-uses the same way of changing the taxable amount to be able to calculate appropriate tax appliance. The example is based on a prestudy from the sector itself.

#### Abstract

|  |  |
| --- | --- |
| Scenario | 06 |
| Name | Standard exchange (barter) |
| Key elements | * Basic elements (see minimal invoice)
* Allowance and charges are used to compose taxable amount for vat calculation
* Extra detail lines are added for correct invoice presentation
* VAT processing according to VAT regulations
* Example combines also other scenarios
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| Detailed examples  | * Human readable pdf-invoice: [TESTcase09](https://vbofeb.sharepoint.com/sites/e-InvoicingBusinessExpertsGroup-Stuurgroep/Gedeelde%20documenten/Stuurgroep/Examples%20-%20Cases%20PeppolBisV3/TESTcase09%20-%206.0%20Standard%20exchange%20complex%20model.pdf)
* xml-invoice: [TESTcase09](https://vbofeb.sharepoint.com/sites/e-InvoicingBusinessExpertsGroup-Stuurgroep/Gedeelde%20documenten/Stuurgroep/Examples%20-%20Cases%20PeppolBisV3/TESTcase09%20-%206.0%20Standard%20exchange%20complex%20model.xml)
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Detailed explanation on the subject: [Standard exchange business case (NL)](https://vbofeb.sharepoint.com/sites/e-InvoicingBusinessExpertsGroup/Gedeelde%20documenten/Manual%20BIS%20V3/standard%20exchange%20business%20case.pdf)



#### Key topics

* Detail lines are initially based on standard minimal invoice. One exception is line 3 introducing discount based on percentage and a base amount to specify allowance on line level. Cash discount on line 3 & 4 are handled on invoice header level.
* To be able to calculate VAT on the correct VAT taxable amount we add line 5 to increase the taxable amount on the correct tax category (in our example VAT 6% and 10% increase results in an amount of €20. To present the invoice with the correct total amount, we add afterwards a line 6 to decrease the total amount (without touching the taxable amount).
* Not all total amounts are shown in the example are available in the electronic invoice, but all missing totals can be calculated based on other available data.

#### Additional invoice elements concerned

None

#### Additional calculation rules

None

#### Description relevant invoice elements

##### AllowanceCharge

|  |  |  |
| --- | --- | --- |
| XML-code | Comments | BT-id |
| <cac:AllowanceCharge> | Start AllowanceCharge 1 |  |
|  <cbc:ChargeIndicator>false</cbc:ChargeIndicator> | False = allowance |  |
|  <cbc:AllowanceChargeReasonCode>64</cbc:AllowanceChargeReasonCode> | Allowance is ‘cash discount’ | BT-98 |
|  <cbc:AllowanceChargeReason>Conditional cash/payment discount | Korting contant | Escompte Conditionnel 2%</cbc:AllowanceChargeReason> | Conditional discount of 2% | BT-97 |
|  <cbc:Amount currencyID="EUR">2.25</cbc:Amount> | Amount cash discount 21% | BT-92 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>S</cbc:ID> | S = standard rate | BT-95 |
|  <cbc:Percent>21.00</cbc:Percent> | Vat rate Allowance (21%) | BT-94 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
| </cac:AllowanceCharge> | End AllowanceCharge 1 |  |
| <cac:AllowanceCharge> | Start AllowanceCharge 2 |  |
|  <cbc:ChargeIndicator>true</cbc:ChargeIndicator> | True = charge |  |
|  <cbc:AllowanceChargeReasonCode>ZZZ</cbc:AllowanceChargeReasonCode> | Charge is ‘cash discount’ | BT-105 |
|  <cbc:AllowanceChargeReason>Conditional cash/payment discount | Korting contant | Escompte Conditionnel</cbc:AllowanceChargeReason> | Conditional discount of 2% | BT-104 |
|  <cbc:Amount currencyID="EUR">2.25</cbc:Amount> | Amount cash discount correction | BT-99 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>E</cbc:ID> | E = exempt | BT-102 |
|  <cbc:Percent>0.00</cbc:Percent> | Vat rate Charge (0%) | BT-103 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
| </cac:AllowanceCharge> | End AllowanceCharge 2 |  |
| <cac:AllowanceCharge> | Start AllowanceCharge 3 |  |
|  <cbc:ChargeIndicator>false</cbc:ChargeIndicator> | False = allowance |  |
|  <cbc:AllowanceChargeReasonCode>64</cbc:AllowanceChargeReasonCode> | Allowance is ‘cash discount’ | BT-98 |
|  <cbc:AllowanceChargeReason>Conditional cash/payment discount | Korting contant | Escompte Conditionnel 2%</cbc:AllowanceChargeReason> | Conditional discount of 2% | BT-97 |
|  <cbc:Amount currencyID="EUR">3.60</cbc:Amount> | Amount cash discount 6% | BT-92 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>S</cbc:ID> | S = standard rate | BT-95 |
|  <cbc:Percent>6.00</cbc:Percent> | Vat rate Allowance (6%) | BT-94 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
| </cac:AllowanceCharge> | End AllowanceCharge 3 |  |
| <cac:AllowanceCharge> | Start AllowanceCharge 4 |  |
|  <cbc:ChargeIndicator>true</cbc:ChargeIndicator> | True = charge |  |
|  <cbc:AllowanceChargeReasonCode>ZZZ</cbc:AllowanceChargeReasonCode> | Charge is ‘cash discount’ | BT-105 |
|  <cbc:AllowanceChargeReason>Conditional cash/payment discount | Korting contant | Escompte Conditionnel</cbc:AllowanceChargeReason> | Conditional discount of 2% | BT-104 |
|  <cbc:Amount currencyID="EUR">3.60</cbc:Amount> | Amount cash discount correction | BT-99 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>E</cbc:ID> | E = exempt | BT-102 |
|  <cbc:Percent>0.00</cbc:Percent> | Vat rate Charge (0%) | BT-103 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
| </cac:AllowanceCharge> | End AllowanceCharge 4 |  |

Extra information:

* There are 4 AllowanceCharge-elements (in fact 2 groups of 2 elements)
	+ Each group concerns ‘cash discount’; 1 group for 6% another for 21%
		- First element applies cash discount to part of invoice subject to VAT category. VAT taxable amount drops.
		- Second element makes PayableAmount holding the correct value. Taxable amount stays unchanged but PayableAmount is increased with the allowance for cash payment since the supplier does not know whether the customer will pay within the delay or not. This amount can be deducted by the customer from the payable amount (PayableAmount) when payment is done within the period as mentioned in PaymentTerms.

|  |  |  |
| --- | --- | --- |
| XML-code | Comments | BT-id |
| <cac:TaxTotal> |  |  |
|  <cbc:TaxAmount currencyID="EUR">67.93</cbc:TaxAmount> | Total VAT due | BT-110 |
|  <cac:TaxSubtotal> | Start tax category 1 (6%) |  |
|  <cbc:TaxableAmount currencyID="EUR">396.40</cbc:TaxableAmount> | Amount taxable at 6% | BT-116 |
|  <cbc:TaxAmount currencyID="EUR">23.78</cbc:TaxAmount> | Subtotal VAT due at 6% | BT-117 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>S</cbc:ID> | S = standard rate | BT-118 |
|  <cbc:Percent>6.00</cbc:Percent> | VAT rate TaxSubtotal 6% | BT-119 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
|  </cac:TaxSubtotal> | End tax category 1 (6%) |  |
|  <cac:TaxSubtotal> | Start tax category 2 (21%) |  |
|  <cbc:TaxableAmount currencyID="EUR">210.25</cbc:TaxableAmount> | Amount taxable at 21% | BT-116 |
|  <cbc:TaxAmount currencyID="EUR">44.15</cbc:TaxAmount> | Subtotal VAT due at 21% | BT-117 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>S</cbc:ID> | S = standard rate | BT-118 |
|  <cbc:Percent>21.00</cbc:Percent> | VAT rate TaxSubtotal 21% | BT-119 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
|  </cac:TaxSubtotal> | End tax category 2 (21%) |  |
|  <cac:TaxSubtotal> | Start tax category 3 (0%) ‘Z’ |  |
|  <cbc:TaxableAmount currencyID="EUR">-20.00</cbc:TaxableAmount> | Amount taxable at 0% | BT-116 |
|  <cbc:TaxAmount currencyID="EUR">0.00</cbc:TaxAmount> | Subtotal VAT due at 0% | BT-117 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>Z</cbc:ID> | Z = zero rate | BT-118 |
|  <cbc:Percent>0.00</cbc:Percent> | VAT rate TaxSubtotal 0% | BT-119 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
|  </cac:TaxSubtotal> | End tax category 3 (0%) ‚Z‘ |  |
|  <cac:TaxSubtotal> | Start tax category 4 (0%) ‘E’ |  |
|  <cbc:TaxableAmount currencyID="EUR">5.85</cbc:TaxableAmount> | Amount taxable at 0% | BT-116 |
|  <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount> | Subtotal VAT due at 0% | BT-117 |
|  <cac:TaxCategory> |  |  |
|  <cbc:ID>E</cbc:ID> | E = exempt | BT-118 |
|  <cbc:Percent>0</cbc:Percent> | VAT rate TaxSubtotal 0% | BT-119 |
|  <cbc:TaxExemptionReasonCode>BETE-FD</cbc:TaxExemptionReasonCode> | Still to be defined in CEF code list | BT-121 |
|  <cbc:TaxExemptionReason>Exempt from tax</cbc:TaxExemptionReason> | Exempt from tax  | BT-120 |
|  <cac:TaxScheme> |  |  |
|  <cbc:ID>VAT</cbc:ID> |  |  |
|  </cac:TaxScheme> |  |  |
|  </cac:TaxCategory> |  |  |
|  </cac:TaxSubtotal> | End tax category 4 (0%) ‚E‘ |  |
| </cac:TaxTotal> |  |  |

Extra information:

* There are 4 TaxSubtotal elements
	+ Element 1 on VAT 6%.
	+ Element 2 on VAT 21%.
	+ Element 3 holds increase correction at 0% ‘Z’
	+ Element 4 is related to cash discount (2%) ‘E’.

##### LegalMonetaryTotal

|  |  |  |
| --- | --- | --- |
| XML-code | Comments | BT-id |
| <cac:LegalMonetaryTotal> |  |  |
|  <cbc:LineExtensionAmount currencyID="EUR">592.50</cbc:LineExtensionAmount> | Total of the invoice lines | BT-106 |
|  <cbc:TaxExclusiveAmount currencyID="EUR">592.50</cbc:TaxExclusiveAmount> | Total amount excl. Vat | BT-109 |
|  <cbc:TaxInclusiveAmount currencyID="EUR">660.43</cbc:TaxInclusiveAmount> | Total amount incl. Vat | BT-112 |
|  <cbc:AllowanceTotalAmount currencyID="EUR">5.85</cbc:AllowanceTotalAmount> | Total allowances | BT-107 |
|  <cbc:ChargeTotalAmount currencyID="EUR">5.85</cbc:ChargeTotalAmount> | Total charges | BT-108 |
|  <cbc:PayableAmount currencyID="EUR">660.43</cbc:PayableAmount> | Amount to pay (excl. Cash discount) | BT-115 |
| </cac:LegalMonetaryTotal> |  |  |